

SIDE ONE

051-24,742

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15- 057-24,742 - 00-00

County Ellis

NW SE NW Sec. 12 Twp. 13s Rge. 20 X East West

3630 Ft. North from Southeast Corner of Section

3630 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name Warren Kraus Well # 1

Field Name Unnamed

Producing Formation LKC - Arbuckle

Elevation: Ground 2085 KB 2090

Total Depth 3777' PBDT \_\_\_\_\_

Operator: License # 03655

Name: Staab Energy & Leasing

Address 2514 Haney Drive

Hays, Kansas 67601

City/State/Zip \_\_\_\_\_

Purchaser: \_\_\_\_\_

Operator Contact Person: Norman G. Staab

Phone (913) 628-1326

Contractor: Name: Helberg Oil Co.

License: 05669 STATE CORPORATION COMMISSION

Wellsite Geologist: Lewis Chubb

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

OWWO: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

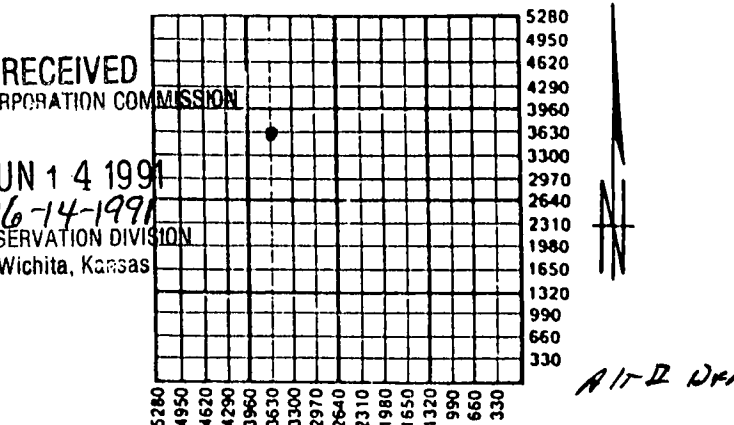
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

05/31/91 06/08/91 06/09/91

Spud Date Date Reached TD Completion Date



Amount of Surface Pipe Set and Cemented at 212.75' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

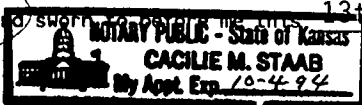
**INSTRUCTIONS:** This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]

Title Owner Date 06/13/91

Subscribed and sworn to before me this 13th day of June, 1991.



Notary Public Cacilie M. Staab

Date Commission Expires October 4, 1994

**K.C.C. OFFICE USE ONLY**

F  Letter of Confidentiality Attached

C  Wireline Log Received

C  Drillers Time Log Received

**Distribution**

KCC  SWD/Rep  NPGA

KGS  Plug  Other (Specify)



TELEPHONE  
AREA CODE 913 483-2627

# ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31  
RUSSELL, KANSAS 67665

ORIGINAL

15-051-24742-00-00

#497

TO: Staab Energy & Leasing  
2514 Haney Drive  
Hays, Kansas 67601

INVOICE NO. 59608  
PURCHASE ORDER NO. \_\_\_\_\_  
LEASE NAME Kraus #1  
DATE May 31, 1991

SERVICE AND MATERIALS AS FOLLOWS:

Common 84 sks @\$5.25	\$ 441.00	
Pozmix 56 sks @\$2.25	126.00	
Chloride 4 sks @\$21.00	<u>84.00</u>	\$ 651.00
Handling 140 sks @\$1.00	140.00	
Mileage (16) @\$0.04c per sk per mi	89.60	
Surface	380.00	
Mi @\$2.00 pmp. trk.	32.00	
1 plug	<u>42.00</u>	<u>683.60</u>
	<b>Total</b>	\$ 1,334.60

RECEIVED  
STATE CORPORATION COMMISSION

JUN 1 4 1991

CONSERVATION DIVISION  
Wichita, Kansas

Cement circ.

THANK YOU

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

TELEPHONE:  
AREA CODE 913 483-2627

# ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31  
RUSSELL, KANSAS 67665

# ORIGINAL

15-0051 2 24 7/12 100-100

TO: Staab Energy & Leading Inc.  
2514 Haney Drive  
Hays, Kansas 67601

INVOICE NO. 59644  
PURCHASE ORDER NO. \_\_\_\_\_  
LEASE NAME Kraus #1  
DATE June 9, 1991

SERVICE AND MATERIALS AS FOLLOWS:

Common 114 sks @\$5.25	\$ 598.50	
Pozmix 76 sks @\$2.25	166.50	
Gel 7 sks @\$6.75	47.25	
Floseal 1 sk.	<u>25.00</u>	\$ 837.25
Handling 190 sks @\$1.00	190.00	
Mileage (14) @\$0.04¢ per sk per mi	106.40	
Plugging	380.00	
Mi @\$2.00 pmp. trk.	28.00	
1 plug	<u>20.00</u>	<u>724.40</u>
		Total \$ 1,561.65

25 sks. @1430'  
100sks. @ 660'  
40 sks. @ 265'  
10 sks. @ 40'  
15 sks. in R. H.\*

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STATE CORPORATION COMMISSION

JUN 14 1991

CONSERVATION DIVISION  
Wichita, Kansas

THANK YOU

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

15-051-24742-20-00

## Drill-Stem Test Data

Well Name KRAUS #1 Test No. 1 Date 6/7/91  
Company STAAB ENERGY & LEASING Zone Tested KS CITY "J"  
Address 2514 HANEY DR HAYS KS 67601 Elevation 2090 KB  
Co. Rep./Geo. L.O. CHUBB Cont. HELBERG RIG #1 Est. Ft. of Pay 6  
Location: Sec. 12 Twp. 13S Rge. 20W Co. ELLIS State KS

Interval Tested 3573-3600 Drill Pipe Size 4.5 XH  
Anchor Length 27 Wt. Pipe I.D. - 2.7 Ft. Run 883  
Top Packer Depth 3568 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 3573  
Total Depth 3600

Mud Wt. 9.1 lb / gal. Viscosity 41 Filtrate 10

Tool Open @ 6:26 PM Initial Blow VERY WEAK SURFACE BLOW BUILDING TO 2"  
NO BLOW BACK ON SHUTIN

Final Blow NO BLOW-FLUSHED TOOL-VERY WEAK SURFACE BLOW DYING IN  
15 MINUTES-NO BLOWBACK ON SHUT-INS

Recovery - Total Feet 30 Flush Tool? YES

Rec. 10 Feet of OIL CUT MUD-20%OIL/80%MUD

Rec. 20 Feet of SLTLY OIL STAINED MUD

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 112 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 40000 ppm System

(A) Initial Hydrostatic Mud 1862.3 PSI Ak1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 25.4 PSI @ (depth) \_\_\_\_\_ w/Clock No. 17652

(C) First Final Flow Pressure 25.4 PSI Ak1 Recorder No. 24174 Range 3350

(D) Initial Shut-In Pressure 731.4 PSI @ (depth) \_\_\_\_\_ w/Clock No. 27501

(E) Second Initial Flow Pressure 44.6 PSI Ak1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 44.6 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_

(G) Final Shut-In Pressure 674.2 PSI Initial Opening 45 Final Flow 30

(H) Final Hydrostatic Mud 1840.9 PSI Initial Shut-In 30 Final Shut-In 30

Our Representative MR ROGER SELLS TOTAL PRICE \$ 550

15-051-24742-00-00



POINT This is an actual photograph of recorder chart PRESSURE

POINT	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1856	1862.3
(B) FIRST INITIAL FLOW PRESSURE	24	25.4
(C) FIRST FINAL FLOW PRESSURE	24	25.4
(D) INITIAL CLOSED-IN PRESSURE	728	731.4
(E) SECOND INITIAL FLOW PRESSURE	41	44.6
(F) SECOND FINAL FLOW PRESSURE	41	44.6
(G) FINAL CLOSED-IN PRESSURE	670	674.2
(H) FINAL HYDROSTATIC MUD	1848	1840.9

# Test Ticket

No. 3906

15-051-24742-0000

Well Name & No. KRAUS #1 Test No. 1 Date 6-7-91  
 Company Strab Energy Leasing Zone Tested KC "J"  
 Address 2514 Nancy Dr. Hays, KS 67601 Elevation 2090 KB  
 Co. Rep./Geo. L.O. Chubb Cont. Helberg Rig #1 Est. Ft. of Pay 6'  
 Location: Sec. 12 Twp. 13 S Rge. 20 W Co. Ellis State KS  
 No. of Copies 5 Distribution Sheet Yes  No Turnkey Yes  No  Evaluation

Interval Tested 3573-3600 Drill Pipe Size 4 1/2 FH  
 Anchor Length 27' Top Choke - 1" Bottom Choke - 1/4"  
 Top Packer Depth 3568 Hole Size - 7 7/8" Rubber Size - 6 3/4"  
 Bottom Packer Depth 3573 Wt. Pipe I.D. - 2.7 Ft. Run 883'  
 Total Depth 3600 Drill Collar - 2.25 Ft. Run 30'

Mud Wt. 9.1 lb/gal. Viscosity 41 Filtrate 10.0  
 Tool Open @ 6:26 PM Initial Blow very weak surface blow building to 2".  
No blow-back on shut-in.  
 Final Blow No blow - Flushed Tool - Very weak surface blow dying in  
15 min. No blowback on shut-in.

Recovery - Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>30'</u>		<u>yes</u>
Rec. <u>10'</u>	Feet Of <u>Oil Cut Mud</u>	% gas <u>20%</u> oil <u>80%</u> water <u>0%</u> mud <u>0%</u>
Rec. <u>20'</u>	Feet Of <u>Slit. Oil Stained Mud</u>	% gas <u>0%</u> oil <u>0%</u> water <u>0%</u> mud <u>0%</u>
Rec. _____	Feet Of _____	% gas _____ oil _____ water _____ mud _____
Rec. _____	Feet Of _____	% gas _____ oil _____ water _____ mud _____
Rec. _____	Feet Of _____	% gas _____ oil _____ water _____ mud _____

BHT 112 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 40,000 ppm System

(A) Initial Hydrostatic Mud 1856 PSI Ak1 Recorder No. 13277 Range 4125  
 (B) First Initial Flow Pressure 24 PSI @ (depth) \_\_\_\_\_ w/Clock No. 17652  
 (C) First Final Flow Pressure 24 PSI Ak1 Recorder No. 24174 Range 3350  
 (D) Initial Shut-In Pressure 728 PSI @ (depth) \_\_\_\_\_ w/Clock No. 27501  
 (E) Second Initial Flow Pressure 41 PSI Ak1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 41 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 670 PSI Initial Opening 45 Test  550.00  
 (H) Final Hydrostatic Mud 1848 PSI Initial Shut-In 30 Jars \_\_\_\_\_

Final Flow 30 Safety Joint \_\_\_\_\_  
 Final Shut-In 30 Straddle \_\_\_\_\_  
 Circ. Sub  n/c  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_

Approved By [Signature]  
 Our Representative Roger F. Seils

TOTAL PRICE \$ 7550.00

TRILOBITE TESTING COMPANY SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUBSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

15-051-24742-00-00

# CIMARRON DRILLERS, INC.

Geologist - Petroleum - Geophysicist

P. O. Box 854

GREAT BEND, KANSAS 67530

LEWIS O. CHUBB  
Phone (316) 793-6749

THOMAS L. CHUBB  
Phone (713) 251-1499

JUNE 10, 1991

STAAB ENERGY AND LEASING, INC  
2514 HANEY DR.  
HAYS, KANSAS 67601

RE: STAAB ENERGY & LEASING  
KRAUS NO. 1  
NW SE NW SEC 12S - 20W  
ELLIS COUNTY, KANSAS

GENTLEMEN:

*AAI 15-051-24742*

THE FOLLOWING IS THE GEOLOGICAL REPORT FOR THE ABOVE  
CAPTIONED WELL:

CONTRACTOR:	HELBERG OIL COMPANY
DATE COMMENCED:	MAY 31, 1991
DATE COMPLETED:	JUNE 8, 1991
ROTARY TOTAL DEPTH:	3777' RTD.
SURFACE CASING:	SET 8 5/8 CASING @ 220'.
ELEVATIONS:	2090' KB; 2085' GL.
DEPTH MEASURED FROM:	2090' KB.
DRILLING TIME PLOTTED:	3100' TO 3777' RTD.
SAMPLES EXAMINED:	3100' TO 3777' RTD.
DRILLSTEM TESTS:	1 LANSING "J" ZONE.
LOGS:	DRILLING TIME LOG
COMPLETION:	PLUGGED AND ABANDONED on the basis of DST no. 1, the low structure position of the Arbuckle, which was not encountered yet at 3777'.

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STATE CORRELATION COMMISSION

JUN 14 1991

CONSERVATION DIVISION  
Wichita, Kansas



FORMATION DATA

<u>FORMATION</u>	<u>DEPTH</u>	<u>SUB-SEA</u>
ANHYDRITE	1409'	674'
BASE	1466'	634'
TOPEKA	3123'	-1033'
HEEBNER	3363'	-1273'
TORONTO	3384'	-1294'
LANSING	3406'	-1316'
BASE KC.	3645'	-1555'
MARMATON	3689'	-1599'
CONGLOMERATE	3727'	-1637'
ROTARY TD	3777'	-1687'

STRUCTURAL POSITION IN RELATION TO NEARBY TESTS

<u>FORMATION</u>	<u>STAAB KRAUS HUMMON KRAUS</u>			<u>DAMAR KRAUS</u>	<u>CLINTON</u>
	<u>SW SE NW</u>	<u>SW SE NW</u>	<u>SW SE NW</u>	<u>NE NE NW</u>	<u>PFEIFER</u>
	<u>SEC 12</u>	<u>SEC 12</u>	<u>SEC 12</u>	<u>SEC 12</u>	<u>SEC 19</u>
ANHYDRITE	674'	679'	671'	682'	
TOPEKA	-1033'	-1035'	-1031'	-1036'	
HEEBNER	-1273'	-1271'	-1271'	-1275'	
LANSING	-1316'	-1312'	-1313'	-1319'	
BASE K. C.	-1555'	-1553'	-1555'	-1579'	
MARMATON	-1599'	-1595'	-1605'	-1588'	
ARBUCKLE		-1668'	-1673'	-1689'	
ROTARY T D	-1687'	-1673'	-1673'	-1689'	

15-051-24742-00-00

ZONES OF INTEREST

<u>FORMATION</u>	<u>DEPTH</u>	<u>DESCRIPTION</u>
TOPEKA	3153-3163'	LIMESTONE, TAN, CREAM, FINE CRYSTALLINE, SUCROSIC, PART CHALKY GOOD POROSITY, NO SHOW.
	3220-3230'	LIMESTONE, TAN, GRAY, OOLITIC WITH CHALKY MATRIX, GOOD MICRO OOLITIC POROSITY, NO SHOW.
	3325-3331'	LIMESTONE, TAN FINE GRAINED, SUCROSIC, CHALKY, GOOD SUCROSIC POROSITY. NO SHOW.
TORONTO	3384-3394'	LIMESTONE, WHITE, DENSE, SLIGHTLY FOSSILIFEROUS, TRANSLUCENT, NO VISIBLE POROSITY, NO SHOW
LANSING	3406-3408'	LIMESTONE, TAN, CREAM, DENSE SLIGHTLY FOSSILIFEROUS, TRACE FOSSILIFEROUS POROSITY, NO SHOW.
	3440-3450'	LIMESTONE, WHITE CREAM, DENSE, SLIGHTLY FOSSILIFEROUS, PSEUDO-OOLITIC, TRACE POROSITY, DEAD OIL STAIN.
	3472-3491'	LIMESTONE, TAN, WHITE, FOSSIL FINE CRYSTALLINE, DENSE, FRACTURED TRACES OF FOSSILIFEROUS AND FRACTURED POROSITY, DEAD OIL STAIN.
"H"	3543-3545'	LIMESTONE, WHITE OOLITIC SLIGHTLY OOLICASTIC, DENSE, THIN, NO SHOW.
'J'	3582-3590'	LIMESTONE, TAN CREAM CRYSTALLINE OOLITIC - OOLIICASTIC, FOSSILIFEROUS, GOOD POROSITY, FREE GOOD SATURATION AND STAIN. TEST.
DST NO. 1	3573-3600'	WEAK BLOW. RECOVERED: 30' SLIGHTLY OILCUT MUD IHP 1856 IFP 24-24# (45) ISIP 728# (30) FFP 41-41# (30) FSIP 670# (30) FHP 1848#

STAAB E & 1 KRAUS

LANSING CONTINUED:

"L"	3632-3638'	LIMESTONE, WHITE, CHALKY WITH TAN OOLITES, CHALKY MATRIX, SOME POROSITY, TRACE STAIN, NO VALUE.
MARMATON	3689-3727'	LIMESTONE, SHALES GRAY DENSE, WITH TAN, TRANSLUCENT CHERTS.
	3727-3747'	SHALES RED, GRAY, WITH ASSOCIATE CHERTS.
CONGLOMERATE	3747-3758,	SHALE RED, SOFT.
	3658-3777'	CHERT, VARY COLORED, VIRTUOUS SOME OOLITIC AND OOLICASTIC. DRILLED ROUGH.

SUMMARY

THE SUBJECT WELL WAS UNDER GEOLOGICAL SUPERVISION FROM 3100' TO 3777' RTD.

STRUCTURALLY THE WELL RAN SLIGHTLY LOWER THAN THE OFFSET WELL, A THICK SECTION OF CONGLOMERATE WAS ENCOUNTERED AND THE ARBUCKLE FORMATION WAS NOT FOUND.

THE WELL WAS PLUGGED AND ABANDONED ON THE BASIS OF DST NO. 1 AND THE FACT THAT THE ARBUCKLE WAS NOT FOUND AT THE ROTARY DEPTH, WHICH WAS TOO LOW TO PRODUCE IN THIS AREA.

RESPECTFULLY SUBMITTED,  
CIMARRON DRILLERS, INC.

*L. O. Chubb*  
L. O. CHUBB, GEOLOGIST.